501816891 02/10/2012

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
BYUNGKYU CHO	02/08/2012
CHANGHYUN LEE	01/26/2012
SUNGHOI HUR	01/25/2012

RECEIVING PARTY DATA

Name:	Samsung Electronics Co., Ltd	
Street Address:	416, Maetan-dong	
City:	Yeongtong-gu, Suwon-si, Gyeonggi-do	
State/Country:	KOREA, REPUBLIC OF	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13107206

CORRESPONDENCE DATA

 Fax Number:
 (516)692-8889

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 516-692-8888

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Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via

US Mail.

Correspondent Name: Frank Chau

Address Line 1: 130 Woodbury Road

Address Line 4: Woodbury, NEW YORK 11797

ATTORNEY DOCKET NUMBER: 8836-698

NAME OF SUBMITTER: FRANK CHAU

Total Attachments: 4

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> PATENT REEL: 027686 FRAME: 0716

OF \$40.00 1310/206

ASSIGNMENT DOCKET NO.: 8836-698 (IE-200138-US)

AS A BELOW NAMED INVENTOR, I, and each of us, individually hereby declare that: IN CONSIDERATION of the sum of TEN (\$10.00) dollars or the equivalent thereof, and other good and valuable consideration, the receipt of which from the hereinafter named Assignee is hereby acknowledged, I do hereby sell, assign and forever grant and convey unto:

ASSIGNEE: Samsung Electronics Co., Ltd.

sale and conveyance had not been made:

ADDRESS: 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, KOREA

Who is my Assignee, and to the successes and assigns of my Assignee, all my right, title and interest, in and for the United States of America and all other countries, including all rights of priority, in and to the invention entitled:

TITLE: MEMORY SEMICONDUCTOR DEVICE AND METHOD OF OPERATING THE SAME

invented by me (if only one inventor is named below) or us (if more than one inventor is named below) and described in an application for a United States patent the specification of which is either attached hereto or otherwise accompanies this Assignment or indicates an attorney docket no.: 8836-698 (IE-200138-US) or is more particularly identified as:

AND I hereby covenant and agree to sign and execute any further documents or instruments which may from time-to-time be either necessary, lawful, proper or requested by the Assignee, in the prosecution of the above-named application or in the preparation and prosecution of any certificate of correction, division, continuation, continuation-in-part, reissue, re-examination, in any amendment, extension, or interference proceeding, whether administrative or judicial, or otherwise, to secure the title hereto in said Assignee;

fully and entirely as the same would have been held and enjoyed by me or us if this assignment,

AND I do hereby authorize and request the Commissioner of Patents and Trademarks to issue said Patent or Patents to the Assignee, and I hereby appoint as my, or our attorney, and authorize and request <u>Frank Chau</u>, <u>Reg. No. 34,136</u>, to insert on this Assignment any further identification or to complete such identification which may be either necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

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IN WITNESS WHEREOF, I and we have set our hands and seals on the dates written beside my and our respective names:

INVENTOR(S)	Date Signed
1)BYUNGKYU CHO	02/04/2012.
2) CHANGHYUN LEE	
3)	

Page 2 of 2



IN WITNESS WHEREOF, I and we have set our hands and seals on the dates written beside my and our respective names:

INVENTOR(S)	Date Signed
1) BYUNGKYU CHO	-
CHANGHYUNLEE	Jan 26 m 20/2
3) SUNGHOI, HUR	· · · · · · · · · · · · · · · · · · ·
	A.C. A. National Control of the Cont

Page 2 of 2

IN WITNESS WHEREOF, I and we have set our hands and seals on the dates written beside my and our respective names:

INVENTOR(S)	<u>Date Signed</u>
I) BYUNGKYU CHO	·
2) CHANGHYUN LEE	
3) Hen Linghon SUNGHOI, HUR	Jan 25 2012

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RECORDED: 02/10/2012

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